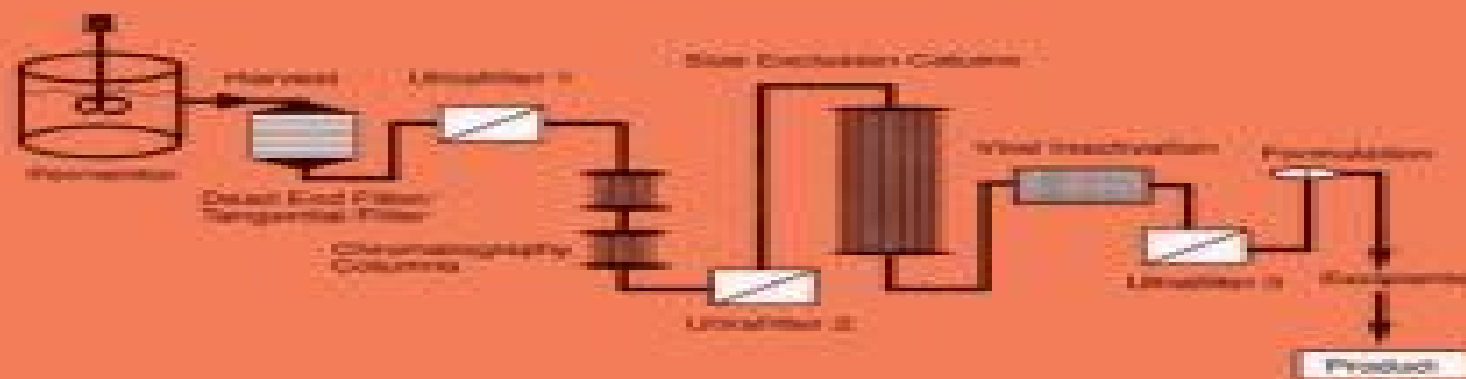


# MEMBRANE SEPARATIONS IN BIOTECHNOLOGY

Second Edition, Revised and Expanded



edited by  
**William K. Wang**



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# Membrane Separations In Biotechnology

**William K. Wang**



## **Membrane Separations In Biotechnology:**

**Membrane Separations in Biotechnology** William K. Wang, 2001-04-03 This text details the relationship between membrane technology and bioprocesses discussing applications This second edition refines and optimizes key features of the first edition and features new illustrative case studies The book examines advantages and disadvantages of using standard and new membrane technologies analyzes a wide range of a

**Membrane Separations in Biotechnology** McGregor WC Ed, 1986

Separation Processes in Biotechnology Juan A. Asenjo, 2020-08-26 Edited to avoid duplication and favor comprehensiveness 20 contributors detail the recovery separation and purification operations of bioprocess technology Individual chapters in this classic yet still highly relevant work emphasize concepts that are becoming more and more important when applied to the large scale versions of techniques that are considered well established Aside from fully discussing processes Separation Processes in Biotechnology includes sections on concentration separation and operation purification operations and product release and recovery It also discusses plant operation and equipment and delves into economic considerations

**Membrane Processes in Separation and Purification** J.G. Crespo, Karl W. Böddeker, 2013-11-11 The chapters of this book are based upon lectures presented at the NATO Advanced Study Institute on Membrane Processes in Separation and Purification March 21 April 2 1993 Curia Portugal organized as a successor and update to a similar Institute that took place 10 years ago p M Bungay H K Lonsdale M N de Pinho Eds Synthetic Membranes Science Engineering and Applications NATO ASI Series Reidel Dordrecht 1986 The decade between the two NATO Institutes witnesses the transition from individually researched membrane processes to an applied and established membrane separation technology as is reflected by the contents of the corresponding proceeding volumes By and large the first volume presents itself as a textbook on membrane processes still valid while the present volume focuses on areas of separation need as amenable to membrane processing Biotechnology and Environmental Technology Accordingly the contributions to this volume are grouped into Membranes in Biotechnology 11 papers Membranes in Environmental Technology 6 papers and New Concepts 4 papers This is followed by one contribution each on Energy Requirements and Education i e membrane processes within an academic curriculum The book thus amounts to a state of the art of applied membrane processing and may well augment the more fundamental approach of its predecessor

*Handbook of Membrane Separations* Anil Kumar Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explo

Membrane Separations Technology R.D. Noble, S.A. Stern, 1995-01-17 The field of membrane separation technology is presently in a state of rapid growth and innovation Many different membrane separation processes have been developed during the past half century and new processes are

constantly emerging from academic industrial and governmental laboratories While new membrane separation processes are being conceived with remarkable frequency existing processes are also being constantly improved in order to enhance their economic competitiveness Significant improvements are currently being made in many aspects of membrane separation technology in the development of new membrane materials with higher selectivity and or permeability in the fabrication methods for high flux asymmetric or composite membranes in membrane module construction and in process design Membrane separation technology is presently being used in an impressive variety of applications and has generated businesses totalling over one billion U S dollars annually The main objective of this book is to present the principles and applications of a variety of membrane separation processes from the unique perspectives of investigators who have made important contributions to their fields Another objective is to provide the reader with an authoritative resource on various aspects of this rapidly growing technology The text can be used by someone who wishes to learn about a general area of application as well as by the knowledgeable person seeking more detailed information

**Novel Membrane Separations in Biotechnology** Moray James Campbell,1994 *Handbook of Membrane Separations* Anil K. Pabby,Syed S.H. Rizvi,Ana Maria Sastre Requena,2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors

**Chromatographic and Membrane Processes in Biotechnology** C.A. Costa,Joaquim S. Cabral,2012-12-06 Separation processes in biotechnology are of increasing industrial importance since they entail the major costs of bioprocessing especially when high purity is required Chromatography and membranes are two of the most important technologies used for direct treatment of fermentation broths as well as for high resolution steps in product purification The theoretical foundations of chromatographic and membrane processes are well understood for the case of small molecules Nevertheless there is a need to adapt and further develop that knowledge to the processing of large biological molecules This is being achieved with the contribution of other areas like molecular biology and materials science The objective of this NATO Advanced Study Institute is to present an updated treatment of the fundamentals of chromatographic and membrane processes with special relevance in bioprocessing This volume collects the lectures presented at this Institute The lectures are arranged in five chapters Chapter I deals with chromatographic processes covering topics like equilibrium kinetics and contacting devices Membrane processes and some applications in biotechnology are treated in chapter 2 Chapter 3 is devoted to affinity chromatographic and membrane processes Chapter 4 considers the

current developments on chromatographic supports and membranes both from the constitutive materials and from points of view. Scale up optimization and reaction separation integration are the topics covered in chapter 5. We are very grateful to all lecturers and participants that made possible this Institute. Financial support from NATO Scientific Affairs Division INIC JNICT FLAD University of Aveiro and DRT Aveiro is gratefully acknowledged.

***Membrane Processes in Biotechnology and Pharmaceuticals*** Catherine Charcosset, 2012-01-25. Membrane processes are increasingly used in pharmaceutical and biochemical engineering and biotechnology for concentration and purification, synthesis of molecules and drug delivery systems and support for biochemical reactions. This book provides a state of the art overview of the classical membrane processes used in pharmaceutical and biochemical engineering and biotechnology such as ultrafiltration, microfiltration, virus filtration, membrane chromatography, membrane emulsification, liquid membranes and membrane bioreactors. It describes the general rules, principles, choice of configurations, membranes, parameters, etc. recent developments, fouling control, increase permeate flux and selectivity, etc. applications and theoretical descriptions. Further, it presents emerging processes such as solvent resistant nanofiltration and membrane crystallization. Presents classical membrane processes such as ultrafiltration, microfiltration, virus filtration, membrane chromatography, membrane emulsification, liquid membranes and membrane bioreactors. Presents emerging processes such as solvent resistant nanofiltration and membrane crystallization. Gives a complete description of each technique, principles, membrane materials and devices, fouling control and theoretical description. Contains numerous examples of applications. Includes a uniform notation throughout the book enhancing the presentation and understanding of the content. Includes extensive list of references.

**Separations for Biotechnology 3** D. L. Pyle, 1994. Bioseparation is a technique by which the products of fermentations or biotransformations are recovered for subsequent use. This volume explores the technical problems posed by bioprocessing and the importance of the recovery of pure biological products for product safety and quality.

**Handbook of Membrane Separations** Anil K. Pabby, Syed S.H. Rizvi, Ana-Maria Sastre, 2015-04-09. The Handbook of Membrane Separations: Chemical, Pharmaceutical, Food and Biotechnological Applications, Second Edition, provides detailed information on membrane separation technologies from an international team of experts. The handbook fills an important gap in the current literature by providing a comprehensive discussion of membrane application.

**Industrial Membrane Separation Technology** K. Scott, R. Hughes, 2012-09-18. Membrane science and technology is an expanding field and has become a prominent part of many activities within the process industries. It is relatively easy to identify the success stories of membranes such as desalination and microfiltration and to refer to others as developing areas. This, however, does not do justice to the wide field of separations in which membranes are used. No other single process offers the same potential and versatility as that of membranes. The word separation classically conjures up a model of removing one component or species from a second component, for example a mass transfer process such as distillation. In the field of synthetic membranes, the terminology separation is used in a wider

context A range of separations of the chemical mass transfer type have developed around the use of membranes including distillation extraction absorption adsorption and stripping as well as separations of the physical type such as filtration Synthetic membranes are an integral part of devices for analysis energy generation and reactors cells in the electrochemical industry *Process Scale Bioseparations for the Biopharmaceutical Industry* Abhinav A. Shukla, Mark R. Etzel, Shishir Gadam, 2006-07-07 The biopharmaceutical industry has become an increasingly important player in the global economy and the success of these products depends on the development and implementation of cost effective robust and scaleable production processes Bioseparations also called downstream processing can be a key source of competitive advantage to biopharmaceut *Membrane Technologies for Biorefining* Alberto Figoli, Alfredo Cassano, Angelo Basile, 2016-02-19

*Membrane Technologies for Biorefining* highlights the best practices needed for the efficient and environmentally compatible separation techniques that are fundamental to the conversion of biomass to fuels and chemicals for use as alternatives to petroleum refining Membrane technologies are increasingly of interest in biorefineries due to their modest energy consumption low chemical requirements and excellent separation efficiency The book provides researchers in academia and industry with an authoritative overview of the different types of membranes and highlights the ways in which they can be applied in biorefineries for the production of chemicals and biofuels Topics have been selected to highlight both the variety of raw materials treated in biorefineries and the range of biofuel and chemical end products Presents the first book to focus specifically on membrane technologies in biorefineries Provides a comprehensive overview of the different types of membranes and highlight ways in which they can be applied in biorefineries for the production of chemicals and biofuels Topics selected highlight both the variety of raw materials treated using membranes in biorefineries and the range of biofuel and chemical end products

**Separation Processes in the Food and Biotechnology Industries** A S Grandison, Alistair S. Grandison, M J Lewis, 1996-01-15 This book reviews methods and techniques for separating food components and products of the biotechnology industry The introduction focuses on food composition and some of the conventional separation techniques Subsequent chapters deal with each specific type or area of application individually and include information on the basic principles industrial equipment available commercial applications and an overview of research and development

**Membrane Separations in Biotechnology** W. Courtney McGregor, 1986

**MEMBRANE SEPARATION PROCESSES** KAUSHIK NATH, 2017-01-01 This concise and systematically organized text now in its second edition gives a clear insight into various membrane separation processes It covers the fundamentals as well as the recent developments of different processes along with their industrial applications and the products It includes the basic principles operating parameters membrane hardware flux equation transport mechanism and applications of membrane based technologies Membrane separation processes are largely rate controlled separations which require rate analysis for complete understanding Moreover a higher level of mathematical analysis along with the understanding of mass transfer is also

required These are amply treated in different chapters of the book to make the students comprehend the membrane separation principles with ease This textbook is primarily designed for undergraduate students of chemical engineering biochemical engineering and biotechnology for the course in membrane separation processes Besides the book will also be useful to process engineers and researchers

**KEY FEATURES** Provides sufficient number of examples of industrial applications related to chemical metallurgical biochemical and food processing industries Focuses on important biomedical applications of membrane based technologies such as blood oxygenator controlled drug delivery plasmapheresis and bioartificial organs Includes chapter end short questions and problems to test students comprehension of the subject

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**Process Scale Purification of Antibodies** Uwe Gottschalk, 2017-03-07 Promoting a continued and much needed renaissance in biopharmaceutical manufacturing this book covers the different strategies and assembles top tier technology experts to address the challenges of antibody purification Updates existing topics and adds new ones that include purification of antibodies produced in novel production systems novel separation technologies novel antibody formats and alternative scaffolds and strategies for ton scale manufacturing Presents new and updated discussions of different purification technologies focusing on how they can address the capacity crunch in antibody purification Emphasizes antibodies and innovative chromatography methods for processing

*Molecular Imprinting of Polymers* Sergey Piletsky, 2006-05-12 One of Nature s most important talents is evolutionary development of systems capable of molecular recognition distinguishing one molecule from another Molecular recognition is the basis for most biological processes such as ligandreceptor binding substrate enzyme reactions and translation and transcription of the genetic code and is therefore

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